



Road Transport in 2040 A Vision of the Future

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SUPPORTING SUSTAINABLE ECONOMIC GROWTH

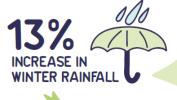
PROTECTING OUR ENVIRONMENT





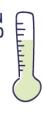
48%
CARBON
REDUCTION
1990-2020
AND 80%
BY 2050

£20bn
ECONOMIC
COST IF WE DO
NOT TACKLE
CLIMATE CHANGE



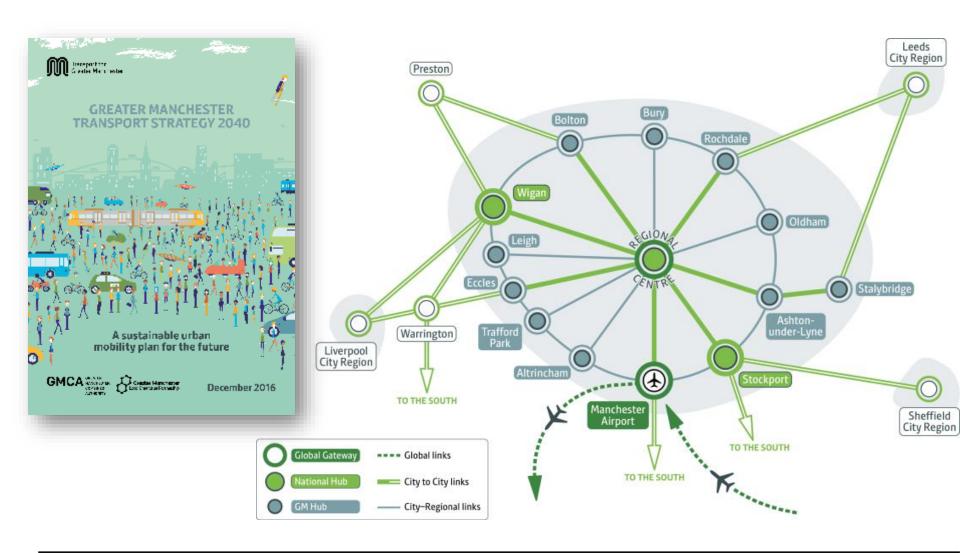


AND ANNUAL MEAN TEMP RISE OF UP TO +2.3°C
BY 2050



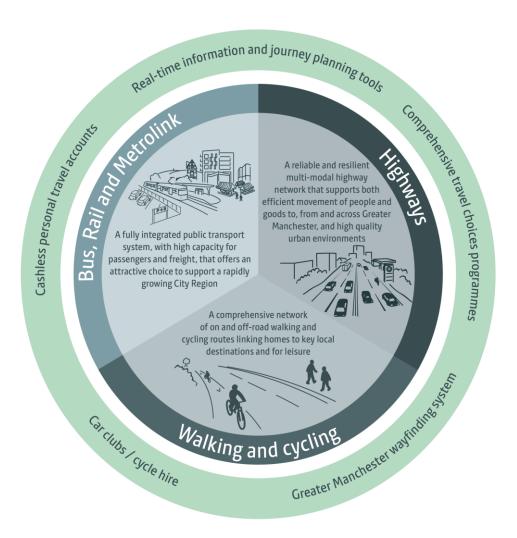








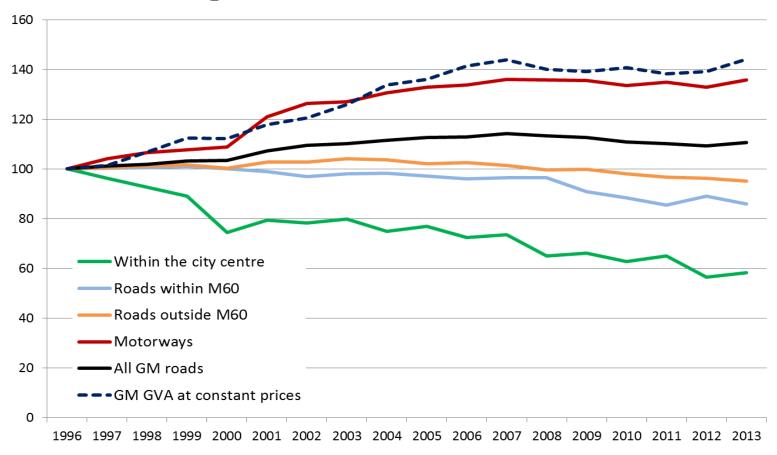








Traffic growth is not an inevitable consequence of economic growth



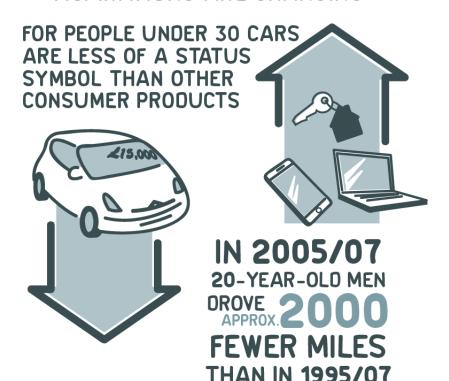




New Lifestyles and Travel Attitudes

ATTITUDES TO CAR USE

ASPIRATIONS ARE CHANGING



77% of 18–35 year olds plan to live in urban centres – "In vibrant, compact, and walkable communities full of economic, social and recreational activities."

(2010, Brookings Institution)





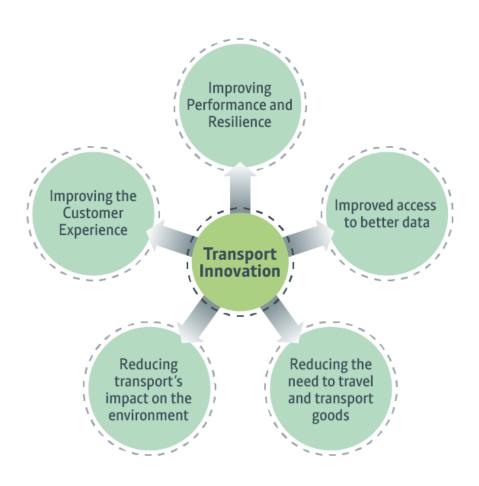
New Mobility Models







Innovation Supporting our Transport Ambitions



Challenges

- Interoperability
- Social inclusion
- Understanding future travel demand
- Security, privacy and regulation
- Data sharing
- Obsolescence
- Infrastructure development costs
- Managing unintended consequences

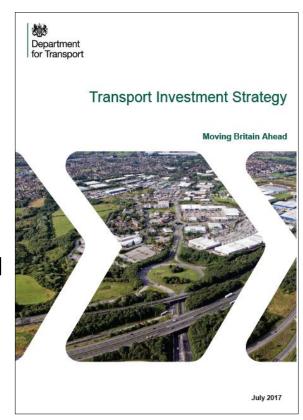




Innovation in transport: UK Government perspective

Government aims for Innovation include:

- Investing in innovation, research and technology that puts the UK at the cutting edge of developing CAV technologies that have global commercial reach
- Harnessing new technologies to offer improvements in passenger and freight movements
- Using data gathered through the development and implementation of new technologies to improve the management of the transport network
- Investing in CAV to improve safety, capacity, traffic flow and journey reliability, and reducing emissions







Our Innovation Agenda

- Mobility as a Service
- **Advance Energy Solutions**
- **Shared Mobility Services**
- **Open Innovation**





- **Autonomous Vehicles**
- IoT Global City Demonstrator
- **Intelligent Transport Systems**
- Big Data for Transport





Designing a Future CAV Framework

Large Scale Transformation

Networked but Unplanned

Optimised and Strategic

Private Adoption

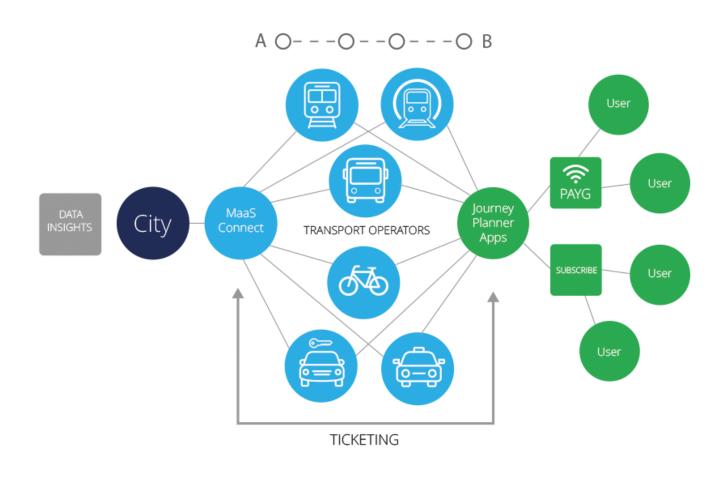
Independent and Remote Collective but Suboptimised **Universal Adoption**

Incremental Evolution





Delivering Mobility As A Service



Developing the Smart City









Thank you

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